



(19)

(11) Publication number:

10319237 A

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: 09131774

(51) Int'l. Cl.: G02B 5/32 G03H 1/00

(22) Application date: 22.05.97

(30) Priority:

(43) Date of application publication: 04.12.98

(84) Designated contracting states:

(71) Applicant: FUJI XEROX CO LTD

(72) Inventor: NINOMIYA MASANOBU
HIKIJI TAKETO
YAMAMOTO SHIGERU
SUZUKI SADAICHI
SAGAWA SHIMIZU

(74) Representative:

(54) VOLUME HOLOGRAM OPTICAL ELEMENT

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a volume hologram liquid crystal element having high reflectivity.

SOLUTION: This optical element consists of a liquid crystal-high-polymer composite film element having a structure alternately laminated with high-polymer layers 3 consisting of a high-polymer compd. and high-polymer liquid crystal layers 4 formed by dispersing liquid crystals into the high-polymer compd. In such a case, the high-polymer compd. consists of a high-polymer compd. contg. at least a fluorine-containing polymerizable compd. as a monomer component. The liquid crystal-high-polymer composite film element described above is held by two sheets of electrode plates, by which the volume hologram optical element is constituted.

COPYRIGHT: (C)1998,JPO

